Page 14, line 17, change "by" to --in descending order of--.

Page 14, line 27, change "cutoff" to --cutoff,--.

Page 14, line 34, after "5'-ATGTGGATAGTTGTA-3'", insert --(SEQ ID NO:2)--.

Page 15, line 14, after "ATGTGGAKAGTTGTA-3'", insert --(SEQ ID NO:3)--.

Page 16, lines 12, 18, and 25, change "intensity of base" to --intensities of bases--.

Page 17, line 32, change "wild-type" to --wild-type,--.

Page 18, line 16, after "shown", insert --by the use of two probe lengths--.

Page 18, line 21, after "to", insert --as--.

Page 18, line 25, after "5'-AAAACTGAAAA-3'", insert --(SEQ ID NO:4)--.

Page 18, line 26, after "5'-AAAACCGAAAA-3'", insert --(SEQ ID NO:5)--.

Page 18, line 32, after "5'-AAAACTGAAAA-3'", insert --(SEQ ID NO:4)--.

Page 20, line 1, change "the bases" to --each base--.

Page 23, lines 12, 28, 30, and 37, change "is" to --would be--.

Page 24, line 28, after "5'-AAACCCAATCCACATCA-3'", insert --(SEQ ID NO:6)--.

Page 24, line 29, after "5'-AAACCCAGTCCACATCA-3'", insert --(SEQ ID NO:7)--.

Page 24, line 37, after "Fig. 5B", insert --(SEQ ID NO:6, SEQ ID NO:28, and SEQ ID NO:29)--.

Page 25, line 11, change "umber" to --number--.

Page 26, line 19, change "between" to --across--.

Page 26, line 36, change "ratio" to --ratios--.

Page 26, line 38, change "is" to --are--.

Page 27, lines 5 and 7, change "intensities" to --intensity ratios--.

Page 27, line 30, change "not" to --neither--.

Page 27, line 31, change "and" to --nor--.

Page 28, line 29, change "inot" to --into--.

Page 28, line 30, change "Thus, the" to --The--.

Page 29, lines 10-11, change "good at calling bases if" to --preferable when--.

Page 29, line 12, change "among" to --across--.

Page 29, line 36, after "AAAACTGAAAA-3'", insert --(SEQ ID NO:4)--.

Page 29, line 37, after "5'-AAAAC<u>C</u>GAAAA-3'", insert --(SEQ ID NO:5)--.

Page 30, line 3, after "5'-AAAAC<u>T</u>GAAAA-3'", insert --(SEQ ID NO:4)--.

Page 31, line 35, change "data" to --data,--.

Page 32, lines 29-30, change "which results in increased" to --improving--.

Page 33, line 5, change "ratio" to --ratios--.

Page 33, line 7, change "is" to --are--.

Page 33, line 11, change "would be" to --are--.

Page 33, line 38, after "The", insert --localized--.

Page 35, line 21, after "with", insert --different--.

Page 35, line 37, delete the word "that" and after "than", insert --that of--.

Page 37, line 7, after "experiments", insert --(SEQ ID NO:8 and SEQ ID NO:9)--.

Page 37, line 19, after "with", insert --the--.

Page 38, line 27, change "Individual sequences, both reference and sample, are selected" to --Sequences to be saved, both reference and sample, are chosen--.

Page 39, line 2, change "the linked sequences." to --sequences of related interest.--

Page 39, line 11, change "in" to --from--.

Page 39, line 13, after "position 120", insert --(SEQ ID NO:30 and SEQ ID NO:31)--.

Page 39, line 23, change "120" to --120,--.

Page 39, line 29, after "bases", insert --(SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, and SEQ ID NO:35)--.

Page 40, line 29, after "concentrations", insert --(SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, and SEQ ID NO:18)--.

Page 41, line 41, after "base", insert --(SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, and SEQ ID NO:39)--.

Page 42, line 5, change "C because" to --C, as--.

Page 42, line 15, change "has a" to --is called--.

Page 43, line 24, after "samples", insert --(SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, and SEQ ID NO:27)--.

Page 43, line 24, change the first occurrence of "mutation" to --base change--.

Please insert the attached pages numbered 45 through 84 and entitled "SEQUENCE LISTING" following page 44 in the specification and renumber original pages 45-51 sequentially as 85-91.

IN THE CLAIMS:

Please amend claims 18 and 19 as follows.

18. (Amended) The method of claim 1, further comprising the step of setting a probe intensity equal to a relatively [relative] small positive number if said probe intensity is less than or equal to zero.

19. (Amended) The method of claim 1, further comprising the step of indicating said unknown base is unable to be called if said plurality of probe intensities has [have] insufficient intensity to call said unknown base.

REMARKS

In reviewing the application, Applicants found some typographical errors, grammar inconsistencies, and the like. Consequently, Applicants present this preliminary amendment. No new matter has been added by these amendments.

Applicants hereby submit a Sequence Listing and a Sequence Listing in computer readable form. Applicants' attorneys attest that the information in the "Sequence Listing" is identical to that which is in computer readable form, as required under 37 CFR 1.821(f). This submission introduces no